

5

RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number:	09/806,368A
Source:	PCT09
Date Processed by STIC:	4/22/02

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216. PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax) PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE <u>CHECKER</u> <u>VERSION 3.1 PROGRAM</u>, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

http://www.uspto.gov/web/offices/pac/checker

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail. Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

- 1. EFS-Bio (http://www.uspto.gov/ebc/efs/downloads/documents.htm, EFS Submission User Manual ePAVE)
- 2. U.S. Postal Service: U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202
- 3. Hand Carry directly to:

U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202

U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

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Revised 01/29/2002



Does Not Comply
Corrected Diskette Needed

PCT09

RAW SEQUENCE LISTING

DATE: 04/22/2002 TIME: 14:21:00

PATENT APPLICATION: US/09/806,368A

Input Set: N:\CPF3\04222002\T806368A raw

Output Set: N:\CRF3\04222002\1806368A.raw

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W--> 8 1

13 <110> APPLICANT: Hoechst Marion Roussel
15 <120> TITLE OF INVENTION: MATURE PROTEIN HAVING ANTAGONIST ACTIVITY AGAINST BONE
16 MORPHOGENETIC PROTEIN.
18 <130> FILE REFERENCE: JH98KOll PCT SEQUENCES IN ENGLISH
C--> 20 <140> CURRENT APPLICATION NUMBER: US/09/806,368A
C--> 21 <141> CURRENT FILING DATE: 2001-03-28
23 <150> PRIOR APPLICATION NUMBER: 10-288103
24 <151> PRIOR FILING DATE: 1998-10-09
26 <160> NUMBER OF SEQ ID NOS: 7
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ERRORED SEQUENCES

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     40 <300> PUBLICATION INFORMATION:
     41 <301> AUTHORS: MAKISHIMA, Fusoa
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              TAKAMATSU, Hiroyuki
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              MIKI, Hideo
              KAWAI, Shinji
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     45
             KIMURA, Michio
     46
              MATSUMOTO, Tomoaki
     47
              KATSUURA, Mieko
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              ENOMOTO, Koichi
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              O 00/21998 PCT/IB99/01621
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     70 <302> TITLE: Novel protein and process for producing the same.
     71 <310> PATENT DOC NO: WO 96/33215
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Sie error Summon

DATE: 04/22/2002

TIME: 14:21:00

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                      Output Set: N:\CRF3\04222002\I806368A.raw
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     133 <300> PUBLICATION INFORMATION:
     134 <301> AUTHORS: WANG, Elizabeth A.
               WOZNEY, John M.
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               ROSEN, Vicki A.
     137 <302> TITLE: Novel osteoinductive compositions.
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Minushial destinator
     145
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             His Pro Leu Tyr Val Asp Phe Ser Asp Val Gly Trp Asn Asp Trp Ile
     148
     150
             Val Ala Pro Pro Gly Tyr His Ala Phe Tyr CYs His Gly Glu Cys Pro
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                                                                 45
     153
             Phe Pro Leu Ala Asp His Leu Asn Ser Thr Asn His Ala Ile Val Gln
                                                                                     Somino Deid
                                                            60
E--> 154
                                  55
                                                                                        numbering
E--> 156
             Thr Leu Val Asn Ser Val Asn Ser Lys Ile Pro(Lvs) Ala Cys Cys Val
E--> 157
                                   70
                                                        75
     159
             Pro Thr Glu Leu Ser Ala Ile Ser Met Leu Tyr Leu Asp Glu Asn Glu
                                                                                        - Some enco
E--> 160
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             Lys Val Val Leu Lys Asn Tyr Gln Asp Met Val Val Glu Gly Cys Gly
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     163
             100
                                  105
E--> 164
             Cys Arg
     181 \ \text{WO} \ 00/21998
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RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/806,368A

DATE: 04/22/2002 RAW SEQUENCE LISTING PATENT APPLICATION: US/09/806,368A TIME: 14:21:00 Input Set : A:\447.001.txt Output Set: N:\CRF3\04222002\I806368A.raw - delet E--> 184 187 <210> SEQ ID NO: 3 188 <211> LENGTH: 116 189 <212> TYPE: PRT 190 <213> ORGANISM: Human 192 <220> FEATURE: 193 <221> NAME/KEY: CHAIN 194 <222> LOCATION: (1)..(116) 195 <223> OTHER INFORMATION: Mature BMP-4 197 <300> PUBLICATION INFORMATION: 198 <301> AUTHORS: WOZNEY, John M. ROSEN, Vicki 199 CELESTE, Anthony J. 200 MITSOCK, Lisa M. 201 WHITTERS, Matthew J. 202 KRIZ, Ronald W. 203 HEWICK, Rodney M. 204 WANG, Elizabeth A. 205 206 <302> TITLE: Novel regulators of bone formation molecular clones 207 and activities. 208 <303> JOURNAL: Science 209 <304> VOLUME: 242 210 <305> ISSUE: 4885 C/M22490 Olobbose entry date 1.823
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Of the new Rule. 211 <306> PAGES: 1528-1534 212 <307> DATE: 1988-12-16 213 <308> DATABASE ACCESSION NO: Genbank/M22490 214 <313> RELEVANT RESIDUES: 1 TO 116 W--> 216 <300> PUBLICATION INFORMATION: 3 Ser Pro Lys His His Ser Gln Arg Ala Arg Lys Lys Asn Lys Asn Cys 217 10 218 5 Arg Arg His Ser Leu Tyr Val Asp Phe Ser Asp Val Gly Trp Asn Asp E--> 220 25 E--> 221 Trp Ile Val Ala Pro Pro Gly Tyr Gln Ala Phe Tyr Cys His Gly Asp 223 40 E--> 224 (PCT/IB99/01621 WO 00/21998 239 5 E--> 241 Cys Pro Phe Pro Leu Ala Asp His Leu Asn Ser Thr Asn His Ala Ile 244 60 55 E--> 245 Val Gln Thr Leu Val Asn Ser Val Asn Ser Ser (71 e)Pro Lys Ala Cys E--> 247 75 70 E--> 248 Cys Val Pro Thr Glu Leu Ser Ala Ile Ser Met Leu Tyr Leu Asp Glu 250 90 E--> 251 Tyr Asp Lys Val Val Leu Lys Asn Tyr Gln Glu met Val Val Glu Gly 253 105 100 E--> 254 256 Cys Gly Cys Arg

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115

E--> 257

RAW SEQUENCE LISTING DATE: 04/22/2002 PATENT APPLICATION: US/09/806,368A TIME: 14:21:00

Input Set : A:\447.001.txt

Output Set: N:\CRF3\04222002\I806368A.raw

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           271 <300> PUBLICATION INFORMATION:
           273 <301> AUTHORS: OZKAYNAK, Engin
                                  RUEGER, David C.
           274
                                  DRIER, Eric A.
           275
           276
                                  CORBETT, Clare
                                  RIDGE, Richard J.
           277
                                  SAMPATH, Kuber T.
           278
           279
                                  OPPERMANN, Hermann
           280 <302> TITLE: OP-1 cDNA encodes an osteogenic protein in the TGF-beta
                                  family.
           281
                                  WO 00/21998 PCT/IB99/01621
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           296
           300 <303> JOURNAL: EMBO J.
           301 <304> VOLUME: 9
           302 <305> ISSUE: 7
           303 <306> PAGES: 2085-2093
           305 <308> DATABASE ACCESSION NO: EM13L data library/X51801
306 <313> RELEVANT RESIDUES: 1 TO 139
308 <300> PUBLICATION TO THE PROPERTY AND THE PROPERTY TO THE
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           317
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                              Asp Leu Gly Trp Gln Asp Trp Ile Ile Ala Pro Glu Gly Tyr Ala Ala
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                                                                                                                                                                              80
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E--> 323
                                                            70
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E--> 326
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E--> 329
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RAW SEQUENCE LISTING

TIME: 14:21:00 PATENT APPLICATION: US/09/806,368A

DATE: 04/22/2002

Input Set : A:\447.001.txt

Output Set: N:\CRF3\04222002\1806368A.raw

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                                                                                 axime pilenul-
     366
                                                                                    acid designata
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E--> 370
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             Asp Asp Trp Ile Ile Ala Pro Leu Glu Tyr Glu Ala Phe His Cys Glu
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     420
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                                               25
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             Asp Asp Trp Ile Ile Ala Pro Leu Glu Tyr Glu Ala Phe His Cys Glu
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             Ala Val Ile Gln Thr Leu Met Asn Ser Met Asp Pro Glu Ser Thr Pro
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                                   70
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     444
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RAW SEQUENCE LISTING

DATE: 04/22/2002

PATENT APPLICATION: US/09/806,368A TIME: 14:21:00

Input Set : $A: \447.001.txt$

Output Set: N:\CRF3\04222002\1806368A.raw

	446	Val	Glu		Cys	Gly	Cys	Arg											
	447			115														< d	elefe
	464	WO	00/21	1998										PCT,	/IB9	9/01	521) _	
E>	466								9										
		<210> S1																	
		<211> L			19														
		<212> T																	
		<213> 01			Huma	an													
		<220> F																	
		<221> N	•																
		<222> LO																	
		<223> 03								_	otei	a. No	ote	:32n	dan	d 35	th Tr	p are	
	478		odifi			Llyl	sulpl	neny.	l Tr	p.									
		<400> SI																	
E>			Leu	Ala	Thr	Arg	(Gin)	Gly	$_{ t Lys}$	Arg		Ser	Lys	Asn	Leu	_	Ala		
	483	1				5	_				10					15			
	485	Arg	Cys	Ser		Lys	Ala	Leu	His		Asn	Phe	Lys	Asp		Gly	\mathtt{Trp}		· 1 1 1
	486	_	_	_	20			_		25					30	_			Circled Tlems
	488	Asp	Asp	-	Ile	Ile	Ala	Pro		Glu	Tyr	Glu	Ala		His	Cys	Glu		
	489		_	35			_	_	40	_	•	_		45		_	•		are involid
	491	GTA	Leu		Glu	Phe	Pro		Arg	Ser	His	Leu		Pro	Thr	Asn	His		2 100 - 1
	492		50			١	_	55	_	_		_	60		_		_		amino ocid
E>			Val	He	Gin	Thr		Met	Asn	Ser	Met	_	Pro	GLu	Ser	Thr			circled items are invalid amino acid clesic, nator!
	495	65	m1	~	_	,	70	m1	_	_	_	75	~ 1	~	- 1	_	80		are 210 marons.
	497	Pro	Thr	Cys	Cys		Pro	Thr	Arg	Leu		Pro	тте	ser	тте		Pne		,
	498			~		85					90			~ 7		95			
E>		ITE	Asp	ser		Asn	Asn	vaı	vaı		Lys(Gin	Tyr	GLU		Met	Val		
	501	17.0 7	C1	0	100	@1 v=	a	7		105					110				
	503	val	Glu		Cys	GTĀ	cys	arg											
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RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/09/806,368A

DATE: 04/22/2002
TIME: 14:21:01

Input Set : A:\447.001.txt

Output Set: N:\CRF3\04222002\I806368A.raw

Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:2; Line(s) 162

VERIFICATION SUMMARY

DATE: 04/22/2002 TIME: 14:21:01 PATENT APPLICATION: US/09/806,368A

Input Set : A:\447.001.txt

Output Set: N:\CRF3\04222002\I806368A.raw

L:6 M:259 W: Allowed number of lines exceeded, (1) GENERAL INFORMATION: L:8 M:259 W: Allowed number of lines exceeded, (1) GENERAL INFORMATION: L:20 M:270 C: Current Application Number differs, Replaced Application Number L:21 M:271 C: Current Filing Date differs, Replaced Current Filing Date L:72 M:256 W: Invalid Numeric Header Field, Wrong PUBLICATION DATE:YYYY-MM-DD L:78 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:1 L:123 M:259 W: Allowed number of lines exceeded, <213> ORGANISM: L:125 M:259 W: Allowed number of lines exceeded, <213> ORGANISM: L:154 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:2 L:156 M:330 E: (2) Invalid Amino Acid Designator, NUMBER OF INVALID KEYS:1 M:332 Repeated in SeqNo=2 L:216 M:256 W: Invalid Numeric Header Field, Identifier <309> Expected, SEQ:3 L:220 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:3 M:332 Repeated in SeqNo=3 L:247 M:333 E: Wrong sequence grouping, Amino acids not in groups! L:247 M:330 E: (2) Invalid Amino Acid Designator, NUMBER OF INVALID KEYS:1 L:308 M:256 W: Invalid Numeric Header Field, Identifier <309> Expected, SEQ:4 L:313 M:333 E: Wrong sequence grouping, Amino acids not in groups! L:313 M:330 E: (2) Invalid Amino Acid Designator, NUMBER OF INVALID KEYS:1 L:323 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:4 M:332 Repeated in SeqNo=4 L:370 M:330 E: (2) Invalid Amino Acid Designator, NUMBER OF INVALID KEYS:1 L:409 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:5 L:466 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:6 L:482 M:330 E: (2) Invalid Amino Acid Designator, NUMBER OF INVALID KEYS:1 L:494 M:330 E: (2) Invalid Amino Acid Designator, NUMBER OF INVALID KEYS:1 L:500 M:330 E: (2) Invalid Amino Acid Designator, NUMBER OF INVALID KEYS:1

ERROR DETECTED	SUGGESTED CORRECTION SERIAL NUMBER: 09/806, 368A
ATTN: NEW RULES CASES	: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE
1Wrapped Nucleics Wrapped Aminos	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
2 Invalid Line Length	The rules require that a line not exceed 72 characters in length. This includes white spaces.
3_V Misaligned Amino Numbering	The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.
4Non-ASCII	The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
5Variable Length	Sequence(s) contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
6PatentIn 2.0 "bug"	A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
7Skipped Sequences (OLD RULES)	Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence: (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading) (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) This sequence is intentionally skipped
	Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
8Skipped Sequences (NEW RULES)	Sequence(s) missing. If Intentional, please insert the following lines for each skipped sequence. <210> sequence id number <400> sequence id number 000
9Use of n's or Xaa's (NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing. Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present. In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
10Invalid <213> Response	Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence
Use of <220>	Sequence(s) missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
PatentIn 2.0 - "bug"	Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
13Misuse of n	n can only be used to represent a single nucleotide in a nucleic acid sequence. N is not used to represent any value not specifically a nucleotide.

AMC/MH - Biotechnology Systems Branch - 08/21/2001